

SEQUENCE LISTING

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<120> Method and means for delaying seed shattering in Brassicaceae

<130> BCS 03-2003

<150> EP 03076952.5
<151> 2003-06-23

<160> 11

<170> PatentIn version 3.0

<210> 1
<211> 597
<212> DNA
<213> Artificial

<220>
<223> nucleotide sequence of the INDEHISCENT gene of A. thaliana (AT-IND)

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gattggaaca aagctaataa tcttctcaca caagaacacg cagcttttct caatgatcct 180
caccatctca tgtagatcc acctcccgaa accctaattc acttggaaga agacgaagag 240
tacgatgaag acatggatgc gatgaaggag atgcagtaca tgatcgccgt catgcagccc 300
gtagacatcg accctgccac ggtccctaag ccgaaccgcc gtaacgtaag gataagcgac 360
gatcctcaga cgggtggttg tcgtcgccgt cgggaaagga tcagcgagaa gatccgaatt 420
ctcaagagga tcgtgcctgg tggcgcaag atggacacag cttccatgct cgacgaagcc 480
atacgttaca ccaagttctt gaaacggcag gtgaggattc ttcagcctca ctctcagatt 540
ggagctccta tggctaacc ctcttacctt tgttattacc acaactccca accctga 597

<210> 2
<211> 643
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<220>
<223> Nucleotide sequence of a INDEHISCENT homologue from Brassica napu

s (BN1-IND

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tatgtctggg tcaaaagcag atgcagcagc catagcccca atagtcatga tggagcctca    120
tcatctcctt atgaactgga acaaacttat tgatctcatt acacaagaaa actcttttaa    180
ccacaatcct catttcatgg tagatccacc ttccgaaacc ctaagccact tccagccccc    240
gccgacagtc ttctccgatc ccggaggagg agaggaagca gaagacgaag aaggagagga    300
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gacggtgggtg gctcgtcggc gtagagaaag gataagcgag aagatccgga tattgaagag    480
gatggtgccca ggcggtgcaa agatggacac tgccctccatg cttgacgaag ccatccgcta    540
caccaagttc ttgaaacggc aggtgaggct tcttcagcct cacactcagc ttgggggtcc    600
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<210> 3
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<220>
<223> nucleotide sequence of a second INDEHISCENT homologue from Brassi
      ca napus (BN2-IND
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<400> 3
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tatatgtctg gctcaaaagc agatgcagcc atagcccca tagtcatgat ggagcatcat    120
catctcctta tgaattggaa caaacctatt gatctcatta cagaagaaaa ctcttttaac    180
cacaatcctc atttcatagt agatccacct tccgaaaccc taagccactt ccagcccccg    240
ccgacaatct tctccggtca cggaggagga gaggaagcag cagaagaaga agaagaagaa    300
ggagaggaag agatggatcc gatgaagaag atgcaatacg cgattgctgc catgcagccc    360
gtagacctcg atccagccac cgttcctaag ccgaaccgcc gtaacgtaag ggtaagcgac    420
gacctcaga cggtgggtggc tcgtcggcgt agagaaagga taagcgagaa gatccggata    480
ttgaggagga tgggtgccagg cggtgcaaag atggacactg cctccatgct cgacgaagcc    540
atccgctaca ccaagttctt gaaacggcag gtgaggctag cttcttcagc ctcacactca    600
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<210> 4
<211> 20
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<220>
<223> common nucleotide sequence of oligonucleotides C0109/C0111

<400> 4
aggtctatgc gtctctagtc 20

<210> 5
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<220>
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tcttcttctg ctgcttcctc 20

<210> 6
<211> 20
<212> DNA
<213> Artificial

<220>
<223> common nucleotide sequence of oligonucleotides C0113/C0114

<400> 6
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<210> 7
<211> 20
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<220>
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<400> 7
aggagtgtgc gactcttggtg 20

<210> 8
<211> 19
<212> DNA
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<220>
<223> common nucleotide sequence of oligonucleotides C0116/C0118

<400> 8
tcttcgtctt cgtccaagt 19

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<211> 895
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<223> nucleotide sequence of the SHATTERPROOF 1 gene of *A. thaliana* (AT-SHP1

<400> 9
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cgacgcaatg gtcttctcaa gaaagcttat gaactctctg tcttgtgtga tgccgaagtt 180
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ggtacaattg aaaggtacaa gaaagcttgt tccgatgccg tcaaccctcc ttccgtcacc 300
gaagctaata ctcaagtacta tcagcaagaa gcctctaagc ttcggaggca gattcgagat 360
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ctcaaaaacc tagaaggacg tcttgaaaaa ggaatcagcc gtgtccgctc caaaaagaat 480
gagctgttag tggcagagat agagtatatg cagaagaggg aaatggagtt gcaacacaat 540
aacatgtacc tgcgagcaaa gatagccgaa ggcgccagat tgaatccgga ccagcaggaa 600
tcgagtgtga tacaaggac gacagtttac gaatccggtg tatcttctca tgaccagtcg 660
cagcattata atcggaacta tattccggtg aaccttcttg aaccgaatca gcaattctcc 720
ggccaagacc aacctcctct tcaacttgtg taactcaaaa catgataact tgtttcttcc 780
cctcataacg attaagagag agacgagaga gttcatttta tatttataac gcgactgtgt 840
attcatagtt taggttctaa taatgataat aacaaaactg ttgtttcttt gcttc 895

<210> 10
<211> 963
<212> DNA
<213> Artificial

<220>
<223> nucleotide sequence of the SHATTERPROOF 2 gene of *A. thaliana* (AT-SHP2

<400> 10
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agctagggct tatagaaatg gaggggtggtg cgagtaatga agtagcagag agcagcaaga	120
agatagggag agggaagata gagataaaga ggatagagaa cactacgaat cgtcaagtca	180
ctttctgcaa acgacgcaat ggtttactca agaaagctta tgagctctct gtcttgtgtg	240
acgctgaggt tgctcttgtc atcttctcca ctcgaggccg tctctacgag tacgccaaca	300
acagtgtgag aggaacaata gaaaggtaca agaaagcttg ctccgacgcc gttaaccctc	360
cgaccatcac cgaagctaata actcagtact atcagcaaga ggcgtctaaa ctccggagac	420
agattcggga cattcagaat ttgaacagac acattcttgg tgaatctctt ggttccttga	480
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ccaagaagca cgagatgtta gttgcagaga ttgaatacat gcaaaaaagg gaaatcgagc	600
tgcaaaacga taacatgtat ctccgctcca agattactga aagaacaggt ctacagcaac	660
aagaatcgag tgtgatacat caagggacag ttacgagtc ggggtgttact tcttctcacc	720
agtcggggca gtataaccgg aattatattg cggttaacct tcttgaaccg aatcagaatt	780
cctccaacca agaccaacca cctctgcaac ttgtttgatt cagtctaaca taagcttctt	840
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ggg	963

<210> 11
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 <212> DNA
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<220>
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cgtttccggc ggagctgttt cttccgtcgg ttatggagtc tctgaaactg gccaagacaa	240
atatgctttc gaacacaaga gaagtggagc taaacagaga aattcgttga agagaaacat	300
tgatgctcaa ttccacaact tgtctgaaaa gaagaggagg agcaagatca acgagaaaat	360
gaaagctttg cagaaactca ttcccaattc caacaagact gataaagcct caatgcttga	420

tgaagctata gaatatctga agcagcttca acttcaagtc cagacttttag ccgttatgaa	480
tggttttaggc ttaaacccta tgcgattacc acaggttcca cctccaactc atacaaggat	540
caatgagacc ttagagcaag acctgaacct agagactctt ctcgctgctc ctcactcgct	600
ggaaccagct aaaacaagtc aaggaatgtg cttttccaca gccactctgc tttgaagata	660
acattcagac aatgatgatg atcggaattc ctctagtacc tgccagacag gagtgaacaa	720
tgttttgagt tttagcattg gccagatttc tatgttcagt tatagttatg ctaataagct	780
ttaggagtga acaaaatctg agtagtttga ttataatgat gtctgaagca gattatatat	840
aaaagactaa ttacttaca tatgagatga ttattacaac tatcaaata ctatgtctgt	900
gagttgcac caaaaaaaaa aaaaaaaaaa a	931